

## CLAIMS

What is claimed is:

- 5           1.     An apparatus for capturing live insects comprising:
  - (a)     an upper section having side walls, a top cover, and plural openings in the side walls that are large enough to permit insects to enter;
  - (b)     an enclosed lower section;
  - 10       (c)     a funnel between the upper section and the enclosed lower section, wherein the funnel has a wide opening adjacent to the upper section and tapers to a narrow opening within the lower section; and
  - (d)     a light source housed within the upper section.
- 15           2.     An apparatus according to claim 1, wherein the side walls of the upper section have an inner surface that is reflective.
3.     An apparatus according to claim 2, wherein the inner surface of the  
20 side walls is white.
4.     An apparatus according to claim 1, wherein in the openings in the side walls comprise vertical slots.
- 25           5.     An apparatus according to claim 1, wherein the wide opening of the funnel forms substantially all of the bottom surface of the upper section when said apparatus is fully assembled.
6.     An apparatus according to claim 1, wherein the enclosed lower  
30 section screws into the upper section.
7.     An apparatus according to claim 1, wherein the light source is an ultraviolet light source.

8. An apparatus according to claim 1, wherein the light source is a fluorescent lamp.

9. An apparatus according to claim 1, further comprising a hanging  
5 means attached to the top cover for hanging said apparatus.

10. An apparatus according to claim 1, wherein the upper section has an outer surface that is substantially entirely dark.

10 11. An apparatus according to claim 1, wherein the enclosed lower section is removable from the upper section.

12. An apparatus according to claim 11, wherein when the enclosed lower section is removed from the upper section the funnel remains covering the  
15 enclosed lower section.

13. An apparatus according to claim 11, further comprising a cover that attaches to the enclosed lower section when the enclosed lower section is removed from the upper section.

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14. An apparatus according to claim 1, wherein the funnel is seated within the enclosed lower section.

15. An apparatus according to claim 1, wherein the lower section is  
25 optically transmissive.

16. An apparatus according to claim 1, wherein the funnel is optically transmissive.

30 17. An apparatus according to claim 1, further comprising a removable funnel insert disposed within the funnel, restricting the narrow opening of the funnel to a smaller size.

18. An apparatus according to claim 1, wherein the only passage between the upper section and the enclosed lower section is through the funnel.

19. An apparatus according to claim 1, wherein the funnel tapers at an  
5 angle of at least 45° from horizontal.